

SITE INFORMATION

Report Type: Closure Report nAPP2307052908

General Site Information:

Site:	Honey Buzzard 102 Lay Flat Line					
Company:	EOG Resources					
Section, Township and Range	Unit A	Sec. 32	T 24S	R 34E		
Lease Number:						
County:	Lea County					
GPS:	32.180930°			-103.487017°		
Surface Owner:	State					
Mineral Owner:						
Directions:	From intersection 128 and Vaca Ln, travel south on Vaca Ln for 2.26 miles. Turn Left and travel East on Resource Ln for 1.89 miles. Release location south of the lease road.					

Release Data:

Date Released:	1/22/2023
Type Release:	Reuse Water
Source of Contamination:	Lay Flat Line
Fluid Released:	10 bbl water
Fluids Recovered:	5 bbl water

Official Communication:

Name:	Todd Wells		Clair Gonzales
Company:	EOG Resources		Tetra Tech
Address:	5509 Champions Dr.		901 W. Wall St.
			Ste 100
City:	Midland, Texas, 79706		Midland, Texas, 79701
Phone number:	(432) 686-3613		(432) 682-4559
Fax:			
Email:	Todd_Wells@eogresources.com		clair.gonzales@tetrattech.com

Site Characterization

Depth to Groundwater:	17.56'
Karst Potential:	Low

Recommended Remedial Action Levels (RRALs)

Benzene	Total BTEX	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	Chlorides
10 mg/kg	50 mg/kg	100 mg/kg	100 mg/kg	600 mg/kg



April 17, 2024

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**RE: Remediation Work Plan
EOG Resources
Honey Buzzard 102 Lay Flat Line
Lea County, New Mexico
nAPP2307052908**

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to assess a release that occurred at the Honey Buzzard 102 Lay Flat Line Release, Unit A, Section 32, Township 24 South, Range 34 East, Lea County, New Mexico (Site). The spill site coordinates are 32.180930°, -103.487017°. The site location is shown on **Figures 1 and 2**.

Background

According to the State of New Mexico C-141 Initial Report, the release at the Site was caused by a developed hole in the lay flat line, causing the release of 10 bbls of reuse water. The release was in the ROW along a lease road, impacting an area of 55' in length and between 15' and 30' in width. Additionally, approximately 5 bbls of fluids were recovered. On January 22, 2023, the release was discovered and reported to the New Mexico Oil Conservation Division (NMOCD). The C-141 is shown in **Appendix A**.

Site Characterization

Significant Water Features

According to the NFHL (National Flood Hazard Layer) Flood Data Application and the USGS (United States Geological Survey) National Water Information System Mapper, there were no lakebeds, sinkholes, playa lakes, springs, wetlands, subsurface mines, private domestic water wells, or floodplains located within the specified distances. However, a USGS Dotted Blue Line watercourse runs through the site. Additionally, the site is located in a low karst area. The NFHL Map, USGS Mapper, and Karst map are shown in **Appendix B**.

Significant Boundaries

According to Google Earth US Government City Boundaries and US School Districts, the lateral extents of the release were not within an incorporated municipal boundaries, defined municipal fresh water well field, or a school district. Additionally, there were no occupied permanent residences, schools, hospitals, institution, or churches located within the specified distances of the lateral extents of the release.

Groundwater Review

Groundwater research was completed for the site through the USGS (United States Geological Survey) National Water Information System and New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System. Groundwater research conducted through these two resources, show the two closest water



wells within a 2 mile radius of the Site. The well reported on the NMOSE Water Rights Reporting System reports a total depth of 60 ft bgs and measured water level of 30 ft bgs and is approximately 2.04 miles of the Site. The well reported on the USGS National Water Information System reports a water level measured at 17.56 ft bgs and is approximately 1.96 miles of the Site. The groundwater information is shown in **Appendix B**.

Distance from Site	Date of Data	Resource of Information	Depth of Well	Depth to Water
1.96 Miles	5/29/1991	USGS	-	17.56'
2.04 Miles	6/30/1912	NMOSE	60'	30'

Regulatory

A risk-based evaluation was performed for the site following the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL for TPH is 100 mg/kg (GRO + DRO + ORO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 600 mg/kg.

Cultural Survey and ROE

Prior to delineation activities, EOG contacted Goshawk Environmental to conduct a cultural resources survey to ensure no cultural or archaeological sites were found within the area of potential impact. The NIAF (NMCRIS Investigation Abstract Form) shows that no cultural or archaeological sites are present in the area of impact or directly adjacent areas. The NIAF is shown in **Appendix C**. Additionally, it has been determined that the impact is located within the area permitted by the current EOG Right of Entry (ROE) permit.

Site Assessment Activities

Initial Site Assessment

Tetra Tech conducted site assessment activities on February 8, 2023. A total of two (2) auger holes (AH-1 through AH-2) were installed to depths ranging from surface to 1.0 ft bgs in attempt to assess and vertically delineate the impacted area. Deeper samples were not collected due to a dense geological formation that was encountered. Additionally, a total of four (4) horizontals (H-1 through H-4) were installed to total depths of 0.5 ft bgs, to horizontally delineate the impact. The impact and sample locations are shown on **Figure 3**.

The samples were submitted to Eurofins Laboratories in Midland, Texas to be analyzed for TPH method 8015 modified, BTEX method 8021B, and Chloride by EPA Method 300.0. The analytical results are summarized in **Table 1** and the analytical laboratory reports are included in **Appendix D**.

Referring to Table 1, auger holes (AH-1 and AH-2) indicated chloride concentrations above RRALs, with concentrations of 966 mg/kg and 4,630 mg/kg at 1.0 ft bgs, respectively. Vertical delineation of chlorides was not found in both auger holes (AH-1 and AH-2) due to the dense geological formation that was encountered. Additionally, Horizontals (H-1 through H-4) did not indicate benzene, BTEX, TPH, or chloride concentrations above RRALs.



Additional Delineation Activities

Tetra Tech conducted additional delineation activities on March 1, 2024. A total of two (2) delineation trenches (AH-1 through AH-2) were installed to depths ranging from surface to 4.0 ft bgs, to attempt to vertically delineate the impacted area. The impact and sample locations are shown on **Figure 3**.

The samples were submitted to Eurofins Laboratories in Midland, Texas to be analyzed for TPH method 8015 modified, BTEX method 8021B, and Chloride by EPA Method 300.0. The analytical results are summarized in **Table 1** and the analytical laboratory reports are included in **Appendix D**.

Referring to Table 1, delineation trenches (AH-1 and AH-2) did not indicate TPH, benzene, or BTEX concentrations above laboratory detection limits. However, delineation trenches (AH-1 and AH-2) indicated chloride concentrations above RRALs, with concentrations of 4,640 mg/kg and 4,080 mg/kg at 1.0 ft bgs, respectively. Additionally, vertical delineation was found in both of the delineation trenches and the remaining samples indicated chloride concentrations below RRALs, with concentrations ranging from 32 mg/kg to 64 mg/kg, at depths ranging from 2.0 ft bgs to 4.0 ft bgs.

Remediation Activities

Due to lay flat lines being in use and present on top of the release area, which led to safety concerns and concerns of causing an additional release, the remediation was unable to take place until the lay flat lines were decommissioned and removed from the area. Following the removal of the lay flat lines, Tetra Tech conducted remediation activities on March 1, 2024. The areas of impact were excavated to a depth of 2.0 ft bgs. The excavation areas and depths are shown on **Figure 4**.

Following remediation activities, Tetra Tech conducted confirmation sampling by collecting 5-point composite bottom hole samples and 5-point composite sidewall samples every 200 square feet within the remediation. All confirmation samples are collected as a composite 5-point die pattern to ensure a representative sample of full depth of sidewalls and the entire floor of the excavation are collected. The confirmation sample notification (C-141N) was submitted for the collected date, a copy of the notice is shown in **Appendix A**. A total of five (5) bottom holes (BH-1 through BH-5) were collected and a total of four (4) sidewalls (SW-1 through SW-4) were collected to confirm full removal of impacted soil. The confirmation soil samples were submitted to the Cardinal Laboratory in Hobbs, New Mexico and Eurofins Laboratory in Midland, Texas to be analyzed for TPH method 8015 modified, BTEX method 8021B, and Chloride by EPA Method 300.0 and EPA Method 4500. The analytical results are summarized in **Table 2** and the analytical laboratory reports are included in **Appendix D**.

Regarding all final samples collected from the remediation, analytical results indicated benzene, BTEX, TPH, and chloride concentrations were below the RRALs.

Conclusion

Based on the C-141 (nAPP2307052908) and information provided by EOG, Tetra Tech performed site characterization and groundwater research to determine groundwater depth, proximity from significant water features, and proximity from specified populated entities to determine RRALs and assess the impacted area. Based on the OCD *Guidelines for Remediation of Leaks, Spills, and Releases*, updated August 14, 2018, according to the groundwater data found during research activities, the RRALs that will be followed for the site, will be held to 600 mg/kg for chlorides, and 100 mg/kg (GRO + DRO + ORO) for TPH. Based on Tetra Tech assessment activities, laboratory results indicated chloride concentrations above RRALs, throughout the impact area, in total depths ranging from surface to 1.0 ft bgs.



Due to lay flat lines being in use and present on top of the release area, which led to safety concerns and concerns of causing an additional release, the remediation was unable to take place until the lay flat lines were decommissioned and removed from the area. Following the removal of the lay flat lines on March 1, 2024, Tetra Tech conducted remediation of the areas of impact. Tetra Tech conducted confirmation soil sampling of the area by collecting 5-point composite confirmation bottom hole and sidewall samples to ensure the impacted soil was fully removed. Approximately 82 cubic yards of impacted soil was removed and properly disposed of, and the area was backfilled with clean material to surface grade.

Reseeding was performed in March of 2024 to coincide with the rainy season in Southeastern New Mexico and aid in revegetation. Based on the soils at the site, the NMSLO Seed Mixture (L) for Loamy Sites was used and planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture was spread by a drill equipped with a depth regulator.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective eradication method. If the site does not show revegetation after one growing season, the area will be reseeded as deemed appropriate. The NMSLO seed mixture details and corresponding pounds PLS per acre are included in **Appendix E**.

The analytical results indicated all confirmation samples reported below the RRALs for all constituents. Based on this information, it is recommended that this Site requires no further action. The C-141 is included in **Appendix A**.

If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.

Respectfully submitted,
TETRA TECH

A handwritten signature in black ink, appearing to read 'Brittany Long'.

Brittany Long,
Project Manager

A handwritten signature in blue ink, appearing to read 'Clair Gonzales'.

Clair Gonzales, P.G.
Senior Project Manager



Figures

NORTH



▲ SITE LOCATION

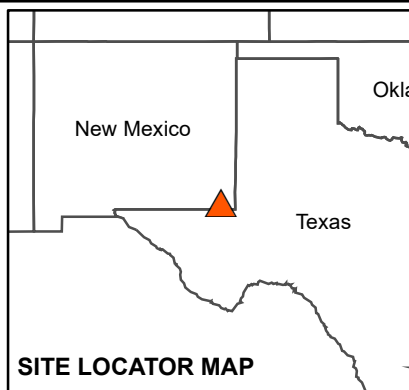
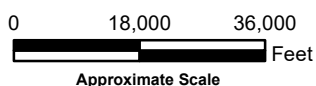
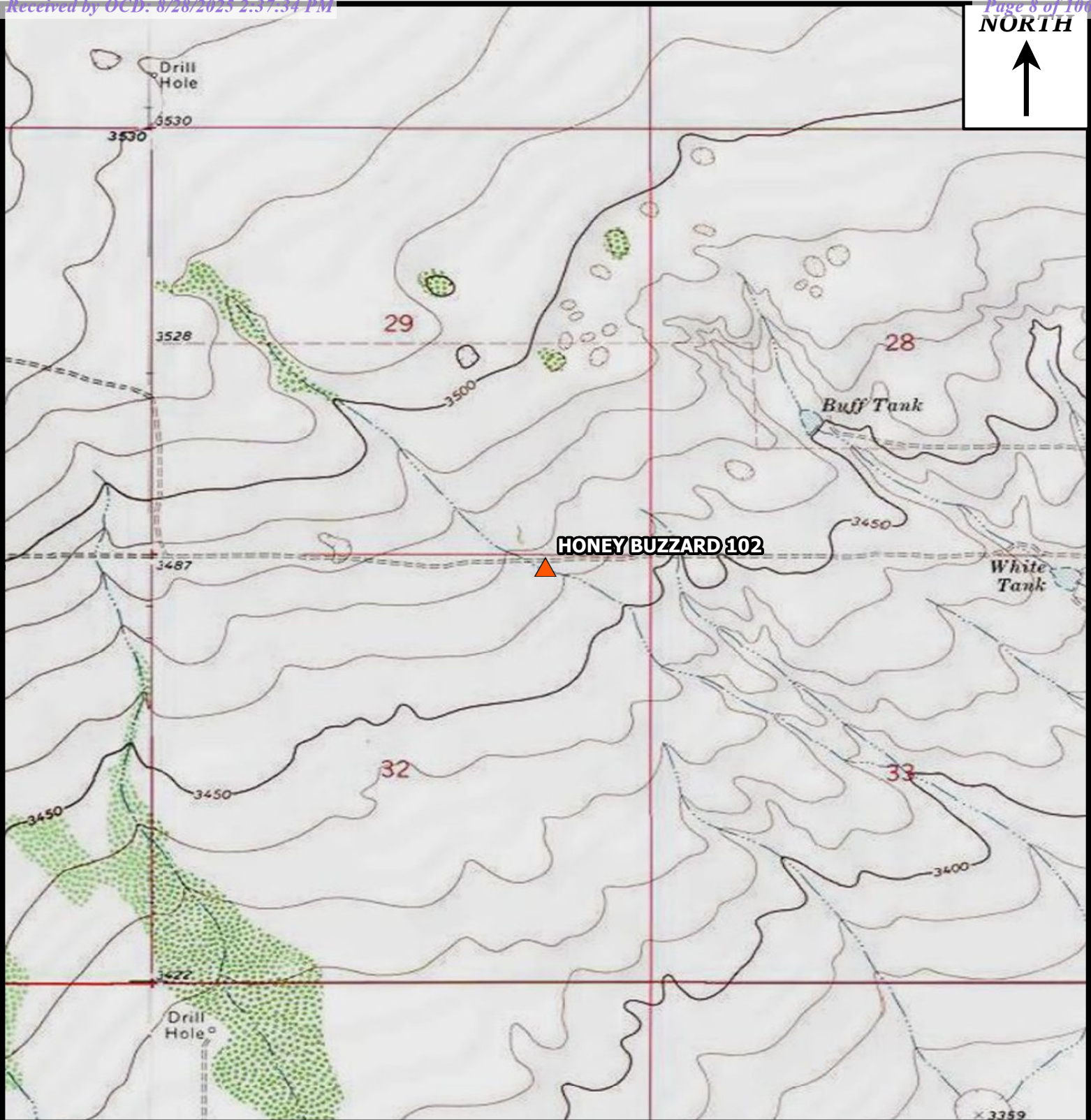


FIGURE 1
OVERVIEW MAP
HONEY BUZZARD 102
LEA COUNTY, NEW MEXICO
32.180812°, -103.486974°

Project: 212C-MD-03007
Date: 2/14/2023
Name: Figure 1 - Honey Buzzard 102





▲ SITE LOCATION

0 1,100 2,200
Feet
Approximate Scale

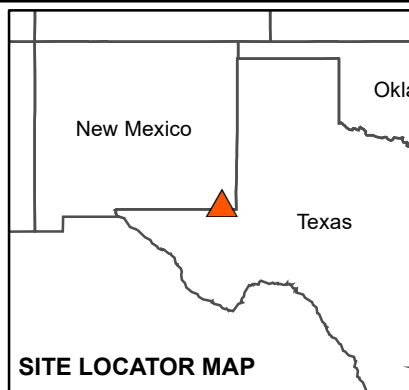


FIGURE 2
TOPOGRAPHIC MAP
HONEY BUZZARD 102
LEA COUNTY, NEW MEXICO
32.180812°, -103.486974°

Project: 212C-MD-03007

Date: 2/14/2023

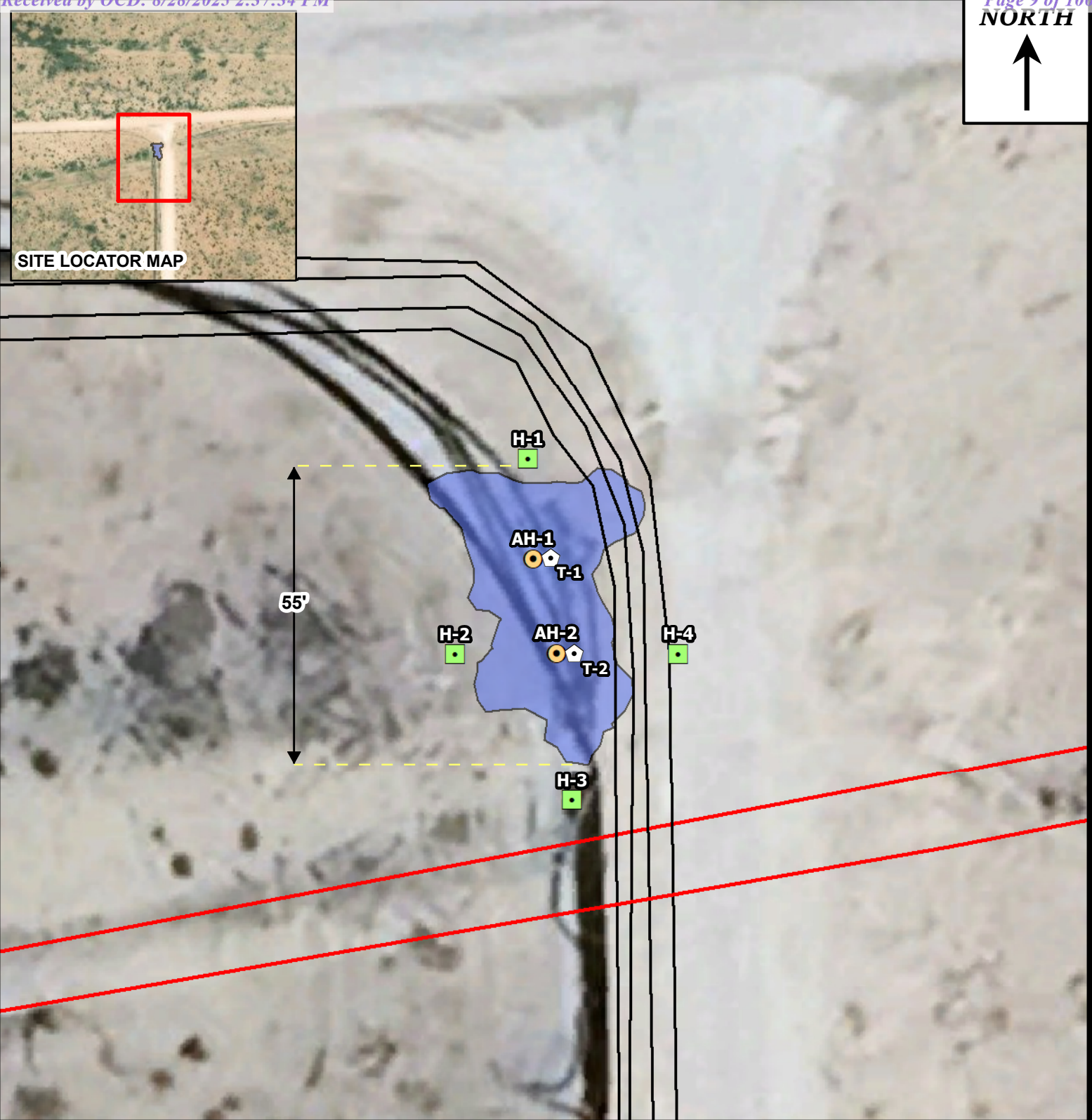
Name: Figure 2 - Honey Buzzard 102



NORTH



SITE LOCATOR MAP



- HORIZONTAL SAMPLE LOCATIONS
- AUGERHOLE SAMPLE LOCATIONS
- TRENCH SAMPLE LOCATION
- EOG SUBSURFACE LINES
- SURFACE POLYLINES
- RELEASE EXTENT

0 20 40
Approximate Scale in Feet



FIGURE 3
SITE ASSESSMENT MAP
HONEY BUZZARD 102
LEA COUNTY, NEW MEXICO
32.180812°, -103.486974°

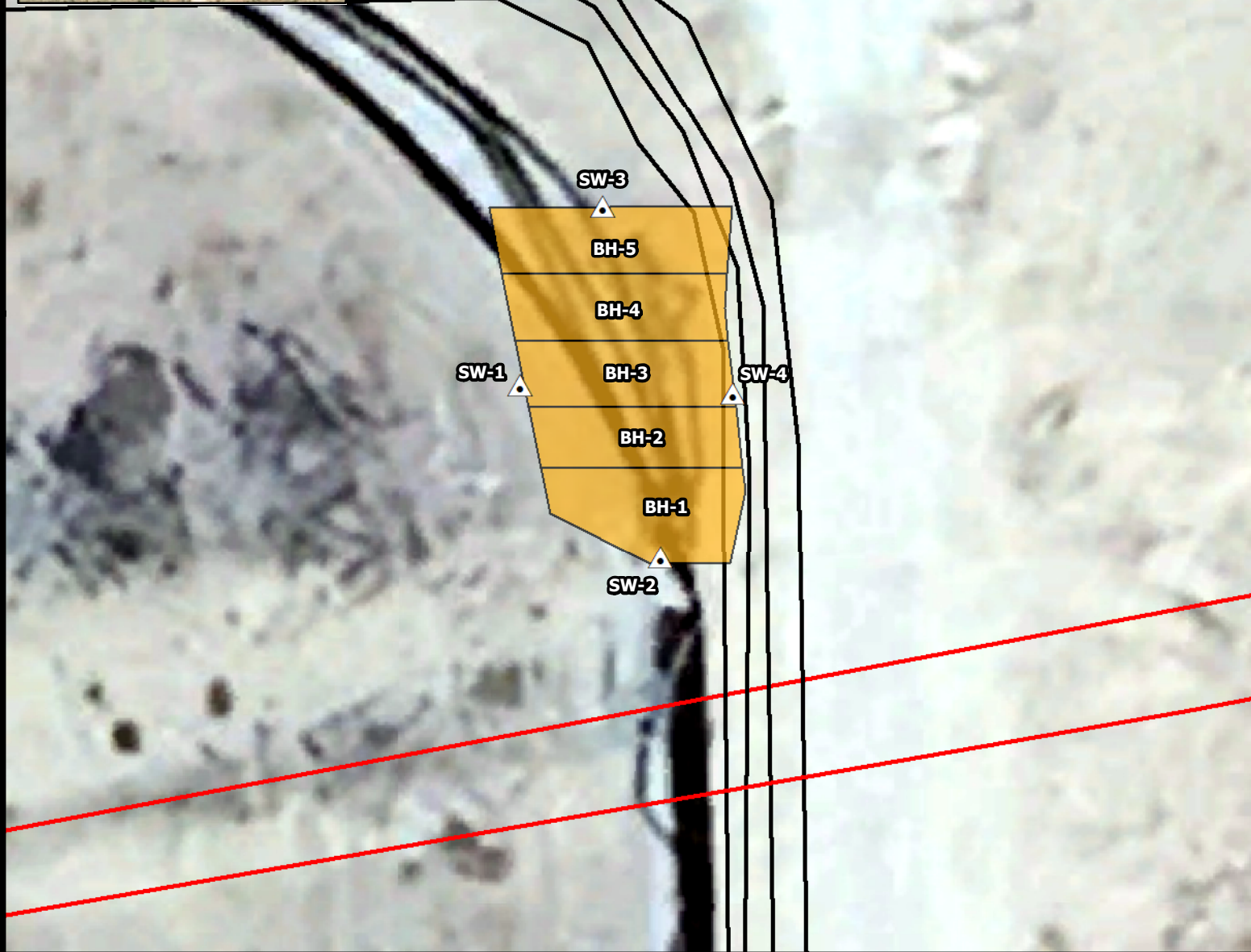
Project: 212C-MD-03007






Date: 3/14/2024

Name: Figure 3 - Honey Buzzard 102



NORTH



-  SIDEWALL SAMPLE LOCATION
-  BOTTOMHOLE SAMPLE LOCATION
-  EOG SUBSURFACE LINES
-  SURFACE POLYLINES
-  2 FT EXCAVATED AREA

0 10 20
Approximate Scale in Feet



FIGURE 4
PROPOSED EXCAVATION MAP
HONEY BUZZARD 102
LEA COUNTY, NEW MEXICO
32.180812°, -103.486974°

Project: 212C-MD-03007

Date: 3/14/2024

Name: Figure 4 - Honey Buzzard 102





Tables

Table 1
EOG Resources
Honey Buzzard 102
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				BTEX (mg/kg)					Chloride (mg/kg)	
			In-Situ	Removed	GRO mg/kg	DRO mg/kg	ORO mg/kg	Total mg/kg	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	Total (mg/Kg)		
RRALs					100 mg/kg				10 mg/kg				50 mg/kg		600 mg/kg
AH-1	2/8/2023	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	966	
AH-1 <small>(Via Delineation Trench)</small>	3/1/2024	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,640	
	3/1/2024	2	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0	
	3/1/2024	3	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	
	3/1/2024	4	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	
AH-2	2/8/2023	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,630	
AH-2 <small>(Via Delineation Trench)</small>	3/1/2024	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,080	
	3/1/2024	2	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0	
	3/1/2024	3	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	
	3/1/2024	4	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0	
H-1	2/8/2023	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	78.6	
H-2	2/8/2023	0-0.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	6.97	
H-3	2/8/2023	0-0.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	6.54	
H-4	2/8/2023	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	21.5	

NOTES

RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Devision) *Guidelines for Remediation of Leaks*.

All screening values and results are presented in milligrams per kilogram (mg/kg)

Bolded cells represent a detected concentration above the respective screening value.

< = analyte was not detected above the respective sample detection limit

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

 Exceedance

Table 2
EOG Resources
Honey Buzzard 102 Lay Flat Line
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				BTEX (mg/kg)					Chloride (mg/kg)
			In-Situ	Removed	GRO mg/kg	DRO mg/kg	ORO mg/kg	Total mg/kg	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	Total (mg/Kg)	
RRALs					100 mg/kg				10 mg/kg		50 mg/kg			600 mg/kg
Release Confirmation Samples														
BH-1	3/1/2024	2	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
BH-2	3/1/2024	2	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
BH-3	3/1/2024	2	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
BH-4	3/1/2024	2	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
BH-5	3/1/2024	2	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-1	3/1/2024		X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
SW-2	3/1/2024		X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-3	3/1/2024		X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-4	3/1/2024		X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0

NOTES

RRALs (Recommended Remediation Action Levels) are based on NMOC (New Mexico Oil Conservation Devision) *Guidelines for Remediation of Leaks*,

All screening values and results are presented in milligrams per kilogram (mg/kg)

Bolded cells represent a detected concentration above the respective screening value.

< = analyte was not detected above the respective sample detection limit

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

 Exceedance



Photographic Documentation

EOG Resources
Honey Buzzard 102 Lay Flat Line
Lea County, New Mexico



View of Release Area – View Southeast



View of Release Area – View East

EOG Resources
Honey Buzzard 102 Lay Flat Line
Lea County, New Mexico



View of Release Area – View South

EOG Resources
Honey Buzzard 102 Lay Flat Line
Lea County, New Mexico



View of Remediation Activities – View Southwest



View of Remediation Activities – View Northeast



Appendix A

C-141 Document

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2307052908
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources	OGRID 7377
Contact Name Todd Wells	Contact Telephone (432) 686-3613
Contact email Todd_Wells@eogresources.com	Incident # (assigned by OCD) nAPP2307052908
Contact mailing address 5509 Champions Drive Midland, TX 79706	

Location of Release Source

Latitude 32.180930° Longitude -103.487017°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Honey Buzzard 102 Lay Flat Line	Site Type Reuse Water Line
Date Release Discovered 1/22/23	API# (if applicable)

Unit Letter	Section	Township	Range	County
A	32	24S	34E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Reuse Water	Volume Released (bbls) 10	Volume Recovered (bbls) 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: The lay flat line going to the Honey Buzzard 102 developed a hole releasing reuse water. The line is located outside of the Klondike Reuse Pit and near Resource Lane. Initially, the release was estimated as less than 5 bbls. Following the initial soil assessment, the volume released from the lay flat line was revised to 10 bbls of reuse water in the pasture beside the lease road with 5 bbls recovered.

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Todd Wells</u>	Title: <u>Environmental Specialist</u>
Signature: <u>Todd Wells</u>	Date: <u>3/11/23</u>
email: <u>Todd_Wells@eogresources.com</u>	Telephone: <u>(432) 686-3613</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 318495

QUESTIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 318495
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2307052908
Incident Name	NAPP2307052908 HONEY BUZZARD 102 LAY FLAT LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved

Location of Release Source

Site Name	HONEY BUZZARD 102 LAY FLAT LINE
Date Release Discovered	01/22/2023
Surface Owner	State

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	1,097
What is the estimated number of samples that will be gathered	12
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/01/2024
Time sampling will commence	11:00 AM
Please provide any information necessary for observers to contact samplers	Tetra Tech/432-741-5813
Please provide any information necessary for navigation to sampling site	From intersection 128 and Vaca Ln, travel south on Vaca Ln for 2.26 miles. Turn Left and travel East on Resource Ln for 1.89 miles. Release location south of the lease road.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

CONDITIONS

Action 318495

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 318495
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
todd wells	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/28/2024



Appendix B

Site Characterization Documents




USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: GroundwaterGeographic Area: United StatesGO

Click to hideNews Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321127103310401

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 321127103310401 24S.33E.24.44444

Lea County, New Mexico
Latitude 32°11'27", Longitude 103°31'04" NAD27
Land-surface elevation 3,538 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data												
Tab-separated data												
Graph of data												
Reselect period												

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1953-11-27			D62610		3518.95	NGVD29	1	Z			A
1953-11-27			D62611		3520.60	NAVD88	1	Z			A
1953-11-27			D72019	17.40			1	Z			A
1976-01-21			D62610		3522.78	NGVD29	1	Z			A
1976-01-21			D62611		3524.43	NAVD88	1	Z			A
1976-01-21			D72019	13.57			1	Z			A
1981-03-19			D62610		3520.32	NGVD29	1	Z			A
1981-03-19			D62611		3521.97	NAVD88	1	Z			A
1981-03-19			D72019	16.03			1	Z			A
1986-03-06			D62610		3521.55	NGVD29	1	Z			A
1986-03-06			D62611		3523.20	NAVD88	1	Z			A
1986-03-06			D72019	14.80			1	Z			A
1991-05-29			D62610		3518.79	NGVD29	1	Z			A
1991-05-29			D62611		3520.44	NAVD88	1	Z			A
1991-05-29			D72019	17.56			1	Z			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

- [Questions or Comments](#)
[Automated retrievals](#)
[Help](#)
[Data Tips](#)
[Explanation of terms](#)

[Subscribe for system changes](#)
[News](#)

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2023-06-07 11:41:19 EDT
0.29 0.24 nadww01



New Mexico Office of the State Engineer

Point of Diversion Summary

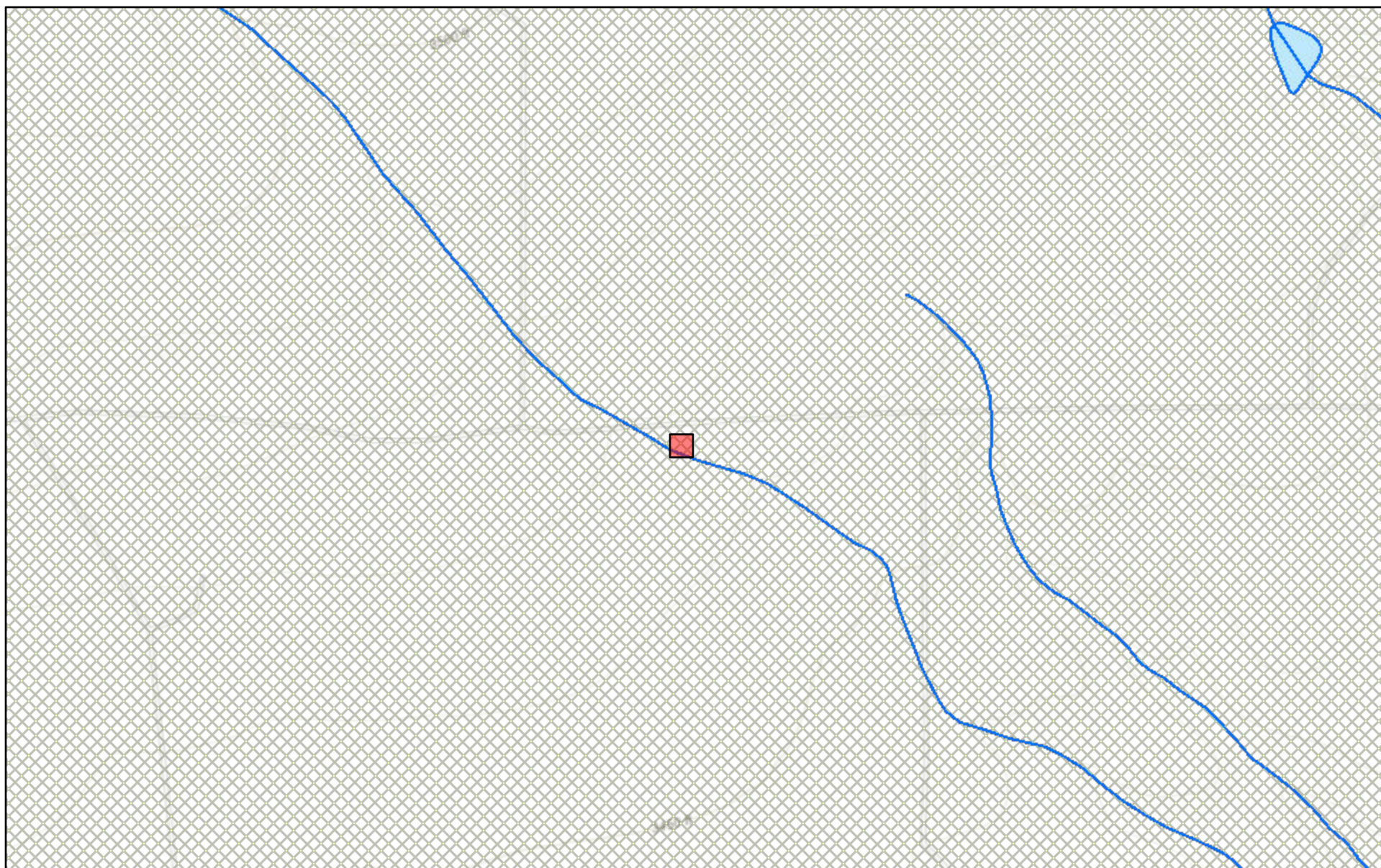
		(quarters are 1=NW 2=NE 3=SW 4=SE)						(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
C	02309	2	2	2	25	24S	33E	639708	3562997		

Driller License:		Driller Company:	
Driller Name: UNKNOWN			
Drill Start Date: 01/01/1912	Drill Finish Date: 06/30/1912		Plug Date:
Log File Date:	PCW Rev Date:		Source:
Pump Type:	Pipe Discharge Size:		Estimated Yield: 40 GPM
Casing Size: 7.00	Depth Well: 60 feet		Depth Water: 30 feet

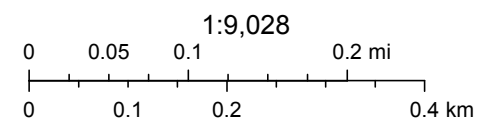
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico NFHL Data



June 7, 2023



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

nmflood.org is made possible through a collaboration with NMDHSEM,

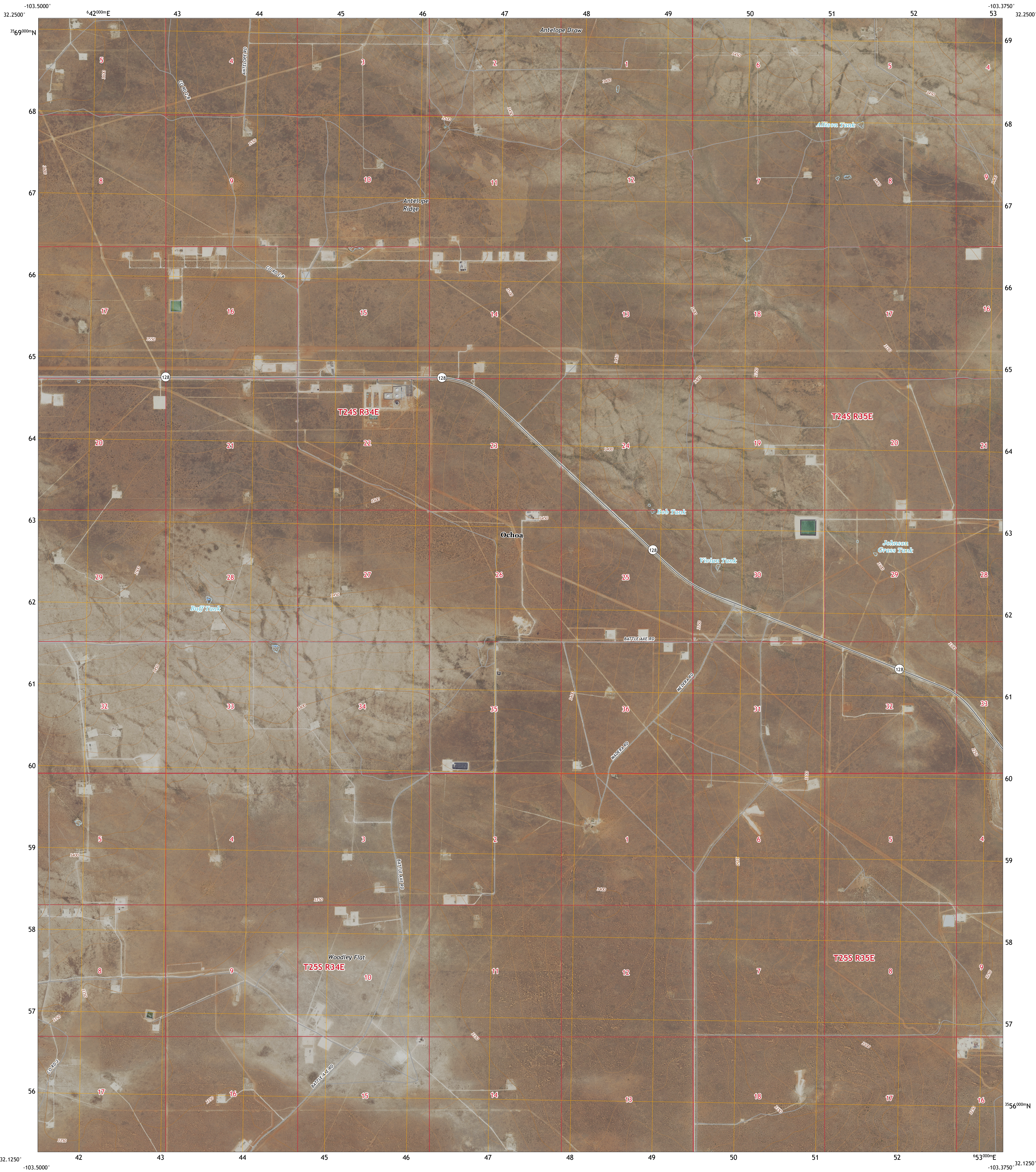
This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.



U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



WOODLEY FLAT QUADRANGLE
NEW MEXICO - LEA COUNTY
7.5-MINUTE SERIES

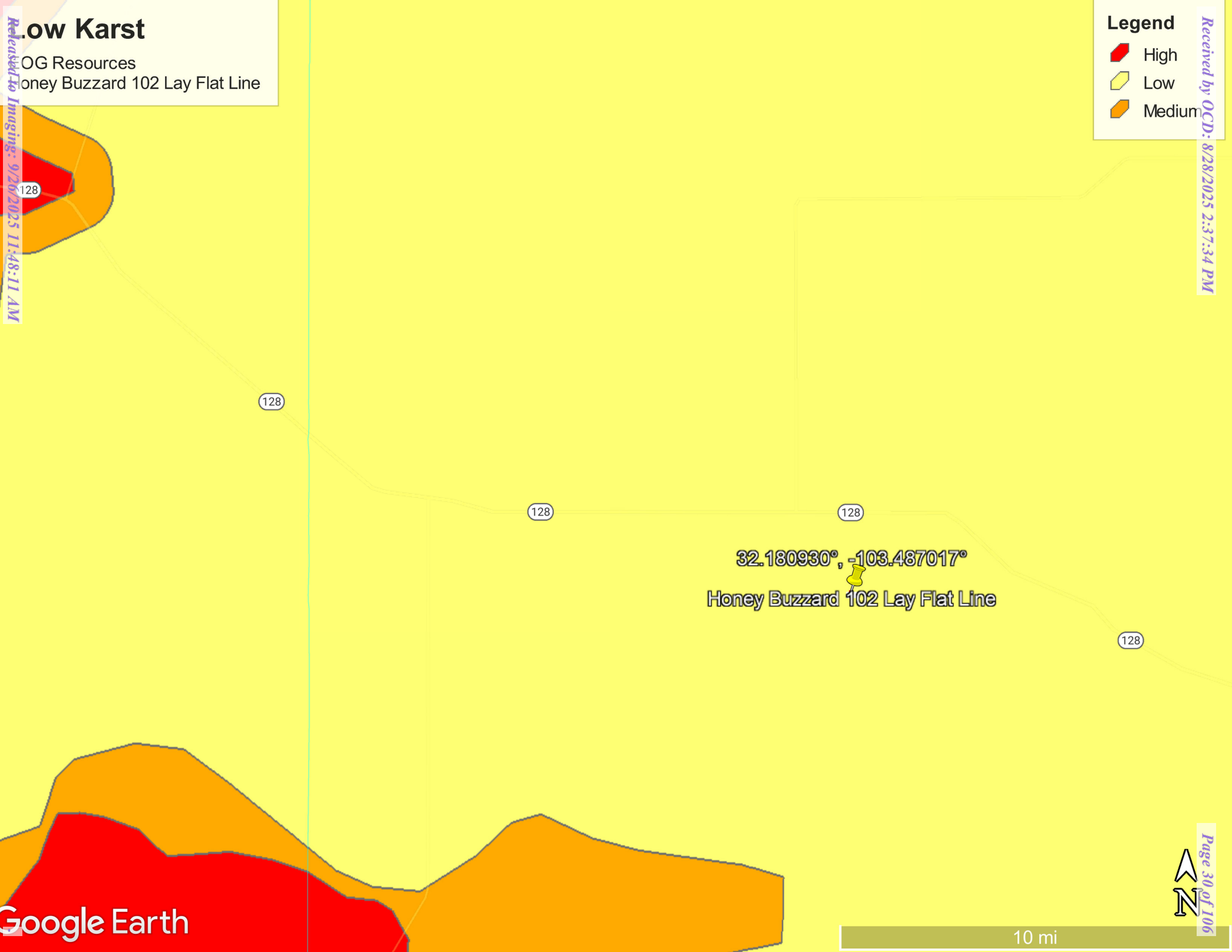


Low Karst
OG Resources
Honey Buzzard 102 Lay Flat Line

Legend

- High
- Low
- Medium

Received by OCD: 8/28/2025 2:37:34 PM





Appendix C

NIAF Document



Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22



Appendix D

Laboratory Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long
Tetra Tech, Inc.
901 W Wall
Ste 100
Midland, Texas 79701

Generated 2/13/2023 7:39:28 PM

JOB DESCRIPTION

Honey Buzzard 102
SDG NUMBER Lea County NM

JOB NUMBER

890-4059-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad**Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
2/13/2023 7:39:28 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Laboratory Job ID: 890-4059-1
SDG: Lea County NM

Table of Contents

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

Job ID: 890-4059-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-4059-1****Receipt**

The samples were received on 2/8/2023 1:07 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

Receipt Exceptions

The following were received and analyzed from an unpreserved bulk soil jar: H-1 (890-4059-1), H-2 (890-4059-2), H-3 (890-4059-3), H-4 (890-4059-4), AH-1 (0-1') (890-4059-5) and AH-2 (0-1') (890-4059-6).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: H-1 (890-4059-1), H-3 (890-4059-3) and H-4 (890-4059-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-1 (890-4059-1), H-2 (890-4059-2), H-3 (890-4059-3), H-4 (890-4059-4), AH-1 (0-1') (890-4059-5) and AH-2 (0-1') (890-4059-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-46070 and analytical batch 880-46062 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-46070 and analytical batch 880-46062. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-45905 and analytical batch 880-45919. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

Client Sample ID: H-1

Lab Sample ID: 890-4059-1

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/08/23 13:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:02	02/12/23 15:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:02	02/12/23 15:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:02	02/12/23 15:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/10/23 15:02	02/12/23 15:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:02	02/12/23 15:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/10/23 15:02	02/12/23 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130	02/10/23 15:02	02/12/23 15:14	1
1,4-Difluorobenzene (Surr)	98		70 - 130	02/10/23 15:02	02/12/23 15:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/13/23 19:47	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 15:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/12/23 09:06	02/12/23 18:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/12/23 09:06	02/12/23 18:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/12/23 09:06	02/12/23 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	51	S1-	70 - 130	02/12/23 09:06	02/12/23 18:26	1
o-Terphenyl	51	S1-	70 - 130	02/12/23 09:06	02/12/23 18:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.6		4.96		mg/Kg			02/10/23 10:31	1

Client Sample ID: H-2

Lab Sample ID: 890-4059-2

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/08/23 13:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:02	02/12/23 15:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:02	02/12/23 15:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:02	02/12/23 15:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 15:02	02/12/23 15:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:02	02/12/23 15:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 15:02	02/12/23 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	02/10/23 15:02	02/12/23 15:34	1
1,4-Difluorobenzene (Surr)	94		70 - 130	02/10/23 15:02	02/12/23 15:34	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

Client Sample ID: H-2

Lab Sample ID: 890-4059-2

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/08/23 13:07

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 19:47	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/13/23 15:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/12/23 09:06	02/12/23 18:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/12/23 09:06	02/12/23 18:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/12/23 09:06	02/12/23 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	58	S1-	70 - 130				02/12/23 09:06	02/12/23 18:47	1
o-Terphenyl	54	S1-	70 - 130				02/12/23 09:06	02/12/23 18:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.97		4.97		mg/Kg			02/10/23 10:36	1

Client Sample ID: H-3

Lab Sample ID: 890-4059-3

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/08/23 13:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/10/23 15:02	02/12/23 15:55	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/10/23 15:02	02/12/23 15:55	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/10/23 15:02	02/12/23 15:55	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/10/23 15:02	02/12/23 15:55	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/10/23 15:02	02/12/23 15:55	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/10/23 15:02	02/12/23 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				02/10/23 15:02	02/12/23 15:55	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130				02/10/23 15:02	02/12/23 15:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/13/23 19:47	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/13/23 15:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/12/23 09:06	02/12/23 19:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/12/23 09:06	02/12/23 19:09	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

Client Sample ID: H-3

Lab Sample ID: 890-4059-3

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/08/23 13:07

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/12/23 09:06	02/12/23 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	54	S1-	70 - 130				02/12/23 09:06	02/12/23 19:09	1
o-Terphenyl	54	S1-	70 - 130				02/12/23 09:06	02/12/23 19:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.54		5.03		mg/Kg			02/10/23 10:50	1

Client Sample ID: H-4

Lab Sample ID: 890-4059-4

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/08/23 13:07

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:02	02/12/23 16:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:02	02/12/23 16:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:02	02/12/23 16:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/10/23 15:02	02/12/23 16:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:02	02/12/23 16:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/10/23 15:02	02/12/23 16:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130				02/10/23 15:02	02/12/23 16:15	1
1,4-Difluorobenzene (Surr)	82		70 - 130				02/10/23 15:02	02/12/23 16:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/13/23 19:47	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 15:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/12/23 09:06	02/12/23 19:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/12/23 09:06	02/12/23 19:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/12/23 09:06	02/12/23 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	49	S1-	70 - 130				02/12/23 09:06	02/12/23 19:31	1
o-Terphenyl	49	S1-	70 - 130				02/12/23 09:06	02/12/23 19:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.5		5.00		mg/Kg			02/10/23 10:55	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

Client Sample ID: AH-1 (0-1')

Lab Sample ID: 890-4059-5

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/08/23 13:07

Sample Depth: 0 - 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/10/23 15:02	02/12/23 16:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/10/23 15:02	02/12/23 16:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/10/23 15:02	02/12/23 16:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/10/23 15:02	02/12/23 16:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/10/23 15:02	02/12/23 16:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/10/23 15:02	02/12/23 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	02/10/23 15:02	02/12/23 16:36	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/10/23 15:02	02/12/23 16:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/13/23 19:47	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 15:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/12/23 09:06	02/12/23 19:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/12/23 09:06	02/12/23 19:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/12/23 09:06	02/12/23 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	54	S1-	70 - 130	02/12/23 09:06	02/12/23 19:53	1
o-Terphenyl	53	S1-	70 - 130	02/12/23 09:06	02/12/23 19:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	966		4.98		mg/Kg			02/10/23 10:59	1

Client Sample ID: AH-2 (0-1')

Lab Sample ID: 890-4059-6

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/08/23 13:07

Sample Depth: 0 - 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:02	02/12/23 16:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:02	02/12/23 16:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:02	02/12/23 16:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 15:02	02/12/23 16:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 15:02	02/12/23 16:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 15:02	02/12/23 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	02/10/23 15:02	02/12/23 16:56	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

Client Sample ID: AH-2 (0-1')

Lab Sample ID: 890-4059-6

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/08/23 13:07

Sample Depth: 0 - 1

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130	02/10/23 15:02	02/12/23 16:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 19:47	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 15:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/12/23 09:06	02/12/23 20:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/12/23 09:06	02/12/23 20:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/12/23 09:06	02/12/23 20:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	52	S1-	70 - 130				02/12/23 09:06	02/12/23 20:15	1
o-Terphenyl	51	S1-	70 - 130				02/12/23 09:06	02/12/23 20:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4630		49.7		mg/Kg			02/10/23 15:16	10

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
820-7364-A-1-B MS	Matrix Spike	121	104
820-7364-A-1-C MSD	Matrix Spike Duplicate	115	106
890-4059-1	H-1	64 S1-	98
890-4059-2	H-2	86	94
890-4059-3	H-3	87	65 S1-
890-4059-4	H-4	65 S1-	82
890-4059-5	AH-1 (0-1')	89	91
890-4059-6	AH-2 (0-1')	95	92
LCS 880-46019/1-A	Lab Control Sample	114	102
LCSD 880-46019/2-A	Lab Control Sample Dup	109	104
MB 880-46019/5-A	Method Blank	74	95
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-24599-A-1-H MS	Matrix Spike	76	72
880-24599-A-1-I MSD	Matrix Spike Duplicate	82	77
890-4059-1	H-1	51 S1-	51 S1-
890-4059-2	H-2	58 S1-	54 S1-
890-4059-3	H-3	54 S1-	54 S1-
890-4059-4	H-4	49 S1-	49 S1-
890-4059-5	AH-1 (0-1')	54 S1-	53 S1-
890-4059-6	AH-2 (0-1')	52 S1-	51 S1-
LCS 880-46070/2-A	Lab Control Sample	98	95
LCSD 880-46070/3-A	Lab Control Sample Dup	113	94
MB 880-46070/1-A	Method Blank	74	75
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-46019/5-A

Matrix: Solid

Analysis Batch: 46073

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46019

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:02	02/12/23 14:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:02	02/12/23 14:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:02	02/12/23 14:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/23 15:02	02/12/23 14:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 15:02	02/12/23 14:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/23 15:02	02/12/23 14:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	02/10/23 15:02	02/12/23 14:31	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/10/23 15:02	02/12/23 14:31	1

Lab Sample ID: LCS 880-46019/1-A

Matrix: Solid

Analysis Batch: 46073

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1043		mg/Kg		104	70 - 130
Toluene	0.100	0.1031		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2306		mg/Kg		115	70 - 130
o-Xylene	0.100	0.1142		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-46019/2-A

Matrix: Solid

Analysis Batch: 46073

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46019

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1134		mg/Kg		113	70 - 130	8	35
Toluene	0.100	0.1048		mg/Kg		105	70 - 130	2	35
Ethylbenzene	0.100	0.1094		mg/Kg		109	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2311		mg/Kg		116	70 - 130	0	35
o-Xylene	0.100	0.1138		mg/Kg		114	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 820-7364-A-1-B MS

Matrix: Solid

Analysis Batch: 46073

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46019

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0996	0.09111		mg/Kg		91	70 - 130
Toluene	<0.00201	U	0.0996	0.09028		mg/Kg		91	70 - 130

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 820-7364-A-1-B MS

Matrix: Solid

Analysis Batch: 46073

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46019

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0996	0.09883		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.199	0.2130		mg/Kg		106	70 - 130
o-Xylene	0.00207		0.0996	0.1063		mg/Kg		105	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 820-7364-A-1-C MSD

Matrix: Solid

Analysis Batch: 46073

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 46019

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.1013		mg/Kg		102	70 - 130	11	35
Toluene	<0.00201	U	0.0996	0.1036		mg/Kg		104	70 - 130	14	35
Ethylbenzene	<0.00201	U	0.0996	0.1085		mg/Kg		108	70 - 130	9	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.2331		mg/Kg		116	70 - 130	9	35
o-Xylene	0.00207		0.0996	0.1158		mg/Kg		114	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-46070/1-A

Matrix: Solid

Analysis Batch: 46062

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46070

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/12/23 09:06	02/12/23 09:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/12/23 09:06	02/12/23 09:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/12/23 09:06	02/12/23 09:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	02/12/23 09:06	02/12/23 09:21	1
o-Terphenyl	75		70 - 130	02/12/23 09:06	02/12/23 09:21	1

Lab Sample ID: LCS 880-46070/2-A

Matrix: Solid

Analysis Batch: 46062

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	999	987.2		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	999	1094		mg/Kg		110	70 - 130

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-46070/2-A

Matrix: Solid

Analysis Batch: 46062

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46070

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: LCSD 880-46070/3-A

Matrix: Solid

Analysis Batch: 46062

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46070

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	999	1059		mg/Kg		106	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	999	1004		mg/Kg		101	70 - 130	9	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 880-24599-A-1-H MS

Matrix: Solid

Analysis Batch: 46062

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46070

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	997	<49.9	U F1	mg/Kg		-0.01	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	<49.9	U F1	mg/Kg		-0.3	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	72		70 - 130

Lab Sample ID: 880-24599-A-1-I MSD

Matrix: Solid

Analysis Batch: 46062

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 46070

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	<49.9	U F1	mg/Kg		0.3	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	<49.9	U F1	mg/Kg		-0.04	70 - 130	11	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	77		70 - 130

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45905/1-A

Matrix: Solid

Analysis Batch: 45919

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/10/23 08:35	1

Lab Sample ID: LCS 880-45905/2-A

Matrix: Solid

Analysis Batch: 45919

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.0		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-45905/3-A

Matrix: Solid

Analysis Batch: 45919

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	268.4		mg/Kg		107	90 - 110	6	20

Lab Sample ID: 890-4058-A-1-B MS

Matrix: Solid

Analysis Batch: 45919

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2470		2510	5014		mg/Kg		101	90 - 110

Lab Sample ID: 890-4058-A-1-C MSD

Matrix: Solid

Analysis Batch: 45919

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2470		2510	5198		mg/Kg		109	90 - 110	4	20

Lab Sample ID: 890-4058-A-11-B MS

Matrix: Solid

Analysis Batch: 45919

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2420	F1	1240	2547	F1	mg/Kg		10	90 - 110

Lab Sample ID: 890-4058-A-11-C MSD

Matrix: Solid

Analysis Batch: 45919

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2420	F1	1240	2550	F1	mg/Kg		10	90 - 110	0	20

Eurofins Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

GC VOA

Prep Batch: 46019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4059-1	H-1	Total/NA	Solid	5035	
890-4059-2	H-2	Total/NA	Solid	5035	
890-4059-3	H-3	Total/NA	Solid	5035	
890-4059-4	H-4	Total/NA	Solid	5035	
890-4059-5	AH-1 (0-1')	Total/NA	Solid	5035	
890-4059-6	AH-2 (0-1')	Total/NA	Solid	5035	
MB 880-46019/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46019/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46019/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-7364-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
820-7364-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 46073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4059-1	H-1	Total/NA	Solid	8021B	46019
890-4059-2	H-2	Total/NA	Solid	8021B	46019
890-4059-3	H-3	Total/NA	Solid	8021B	46019
890-4059-4	H-4	Total/NA	Solid	8021B	46019
890-4059-5	AH-1 (0-1')	Total/NA	Solid	8021B	46019
890-4059-6	AH-2 (0-1')	Total/NA	Solid	8021B	46019
MB 880-46019/5-A	Method Blank	Total/NA	Solid	8021B	46019
LCS 880-46019/1-A	Lab Control Sample	Total/NA	Solid	8021B	46019
LCSD 880-46019/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46019
820-7364-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	46019
820-7364-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46019

Analysis Batch: 46248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4059-1	H-1	Total/NA	Solid	Total BTEX	
890-4059-2	H-2	Total/NA	Solid	Total BTEX	
890-4059-3	H-3	Total/NA	Solid	Total BTEX	
890-4059-4	H-4	Total/NA	Solid	Total BTEX	
890-4059-5	AH-1 (0-1')	Total/NA	Solid	Total BTEX	
890-4059-6	AH-2 (0-1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 46062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4059-1	H-1	Total/NA	Solid	8015B NM	46070
890-4059-2	H-2	Total/NA	Solid	8015B NM	46070
890-4059-3	H-3	Total/NA	Solid	8015B NM	46070
890-4059-4	H-4	Total/NA	Solid	8015B NM	46070
890-4059-5	AH-1 (0-1')	Total/NA	Solid	8015B NM	46070
890-4059-6	AH-2 (0-1')	Total/NA	Solid	8015B NM	46070
MB 880-46070/1-A	Method Blank	Total/NA	Solid	8015B NM	46070
LCS 880-46070/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46070
LCSD 880-46070/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46070
880-24599-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	46070
880-24599-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	46070

Eurofins Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

GC Semi VOA

Prep Batch: 46070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4059-1	H-1	Total/NA	Solid	8015NM Prep	
890-4059-2	H-2	Total/NA	Solid	8015NM Prep	
890-4059-3	H-3	Total/NA	Solid	8015NM Prep	
890-4059-4	H-4	Total/NA	Solid	8015NM Prep	
890-4059-5	AH-1 (0-1')	Total/NA	Solid	8015NM Prep	
890-4059-6	AH-2 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-46070/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46070/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46070/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24599-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-24599-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4059-1	H-1	Total/NA	Solid	8015 NM	
890-4059-2	H-2	Total/NA	Solid	8015 NM	
890-4059-3	H-3	Total/NA	Solid	8015 NM	
890-4059-4	H-4	Total/NA	Solid	8015 NM	
890-4059-5	AH-1 (0-1')	Total/NA	Solid	8015 NM	
890-4059-6	AH-2 (0-1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 45905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4059-1	H-1	Soluble	Solid	DI Leach	
890-4059-2	H-2	Soluble	Solid	DI Leach	
890-4059-3	H-3	Soluble	Solid	DI Leach	
890-4059-4	H-4	Soluble	Solid	DI Leach	
890-4059-5	AH-1 (0-1')	Soluble	Solid	DI Leach	
890-4059-6	AH-2 (0-1')	Soluble	Solid	DI Leach	
MB 880-45905/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45905/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45905/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4058-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4058-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-4058-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4058-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 45919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4059-1	H-1	Soluble	Solid	300.0	45905
890-4059-2	H-2	Soluble	Solid	300.0	45905
890-4059-3	H-3	Soluble	Solid	300.0	45905
890-4059-4	H-4	Soluble	Solid	300.0	45905
890-4059-5	AH-1 (0-1')	Soluble	Solid	300.0	45905
890-4059-6	AH-2 (0-1')	Soluble	Solid	300.0	45905
MB 880-45905/1-A	Method Blank	Soluble	Solid	300.0	45905
LCS 880-45905/2-A	Lab Control Sample	Soluble	Solid	300.0	45905
LCSD 880-45905/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45905
890-4058-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	45905

Eurofins Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 45919 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4058-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	45905
890-4058-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	45905
890-4058-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	45905

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- 2
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Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

Client Sample ID: H-1

Lab Sample ID: 890-4059-1

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/08/23 13:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			46019	MNR	EET MID	02/10/23 15:02
Total/NA	Analysis	8021B		1	46073	MNR	EET MID	02/12/23 15:14
Total/NA	Analysis	Total BTEX		1	46248	SM	EET MID	02/13/23 19:47
Total/NA	Analysis	8015 NM		1	46179	SM	EET MID	02/13/23 15:10
Total/NA	Prep	8015NM Prep			46070	AM	EET MID	02/12/23 09:06
Total/NA	Analysis	8015B NM		1	46062	SM	EET MID	02/12/23 18:26
Soluble	Leach	DI Leach			45905	KS	EET MID	02/09/23 14:50
Soluble	Analysis	300.0		1	45919	CH	EET MID	02/10/23 10:31

Client Sample ID: H-2

Lab Sample ID: 890-4059-2

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/08/23 13:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			46019	MNR	EET MID	02/10/23 15:02
Total/NA	Analysis	8021B		1	46073	MNR	EET MID	02/12/23 15:34
Total/NA	Analysis	Total BTEX		1	46248	SM	EET MID	02/13/23 19:47
Total/NA	Analysis	8015 NM		1	46179	SM	EET MID	02/13/23 15:10
Total/NA	Prep	8015NM Prep			46070	AM	EET MID	02/12/23 09:06
Total/NA	Analysis	8015B NM		1	46062	SM	EET MID	02/12/23 18:47
Soluble	Leach	DI Leach			45905	KS	EET MID	02/09/23 14:50
Soluble	Analysis	300.0		1	45919	CH	EET MID	02/10/23 10:36

Client Sample ID: H-3

Lab Sample ID: 890-4059-3

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/08/23 13:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			46019	MNR	EET MID	02/10/23 15:02
Total/NA	Analysis	8021B		1	46073	MNR	EET MID	02/12/23 15:55
Total/NA	Analysis	Total BTEX		1	46248	SM	EET MID	02/13/23 19:47
Total/NA	Analysis	8015 NM		1	46179	SM	EET MID	02/13/23 15:10
Total/NA	Prep	8015NM Prep			46070	AM	EET MID	02/12/23 09:06
Total/NA	Analysis	8015B NM		1	46062	SM	EET MID	02/12/23 19:09
Soluble	Leach	DI Leach			45905	KS	EET MID	02/09/23 14:50
Soluble	Analysis	300.0		1	45919	CH	EET MID	02/10/23 10:50

Client Sample ID: H-4

Lab Sample ID: 890-4059-4

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/08/23 13:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			46019	MNR	EET MID	02/10/23 15:02
Total/NA	Analysis	8021B		1	46073	MNR	EET MID	02/12/23 16:15
Total/NA	Analysis	Total BTEX		1	46248	SM	EET MID	02/13/23 19:47

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

Client Sample ID: H-4

Lab Sample ID: 890-4059-4

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/08/23 13:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	46179	SM	EET MID	02/13/23 15:10
Total/NA	Prep	8015NM Prep			46070	AM	EET MID	02/12/23 09:06
Total/NA	Analysis	8015B NM		1	46062	SM	EET MID	02/12/23 19:31
Soluble	Leach	DI Leach			45905	KS	EET MID	02/09/23 14:50
Soluble	Analysis	300.0		1	45919	CH	EET MID	02/10/23 10:55

Client Sample ID: AH-1 (0-1')

Lab Sample ID: 890-4059-5

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/08/23 13:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			46019	MNR	EET MID	02/10/23 15:02
Total/NA	Analysis	8021B		1	46073	MNR	EET MID	02/12/23 16:36
Total/NA	Analysis	Total BTEX		1	46248	SM	EET MID	02/13/23 19:47
Total/NA	Analysis	8015 NM		1	46179	SM	EET MID	02/13/23 15:10
Total/NA	Prep	8015NM Prep			46070	AM	EET MID	02/12/23 09:06
Total/NA	Analysis	8015B NM		1	46062	SM	EET MID	02/12/23 19:53
Soluble	Leach	DI Leach			45905	KS	EET MID	02/09/23 14:50
Soluble	Analysis	300.0		1	45919	CH	EET MID	02/10/23 10:59

Client Sample ID: AH-2 (0-1')

Lab Sample ID: 890-4059-6

Date Collected: 02/08/23 00:00

Matrix: Solid

Date Received: 02/08/23 13:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			46019	MNR	EET MID	02/10/23 15:02
Total/NA	Analysis	8021B		1	46073	MNR	EET MID	02/12/23 16:56
Total/NA	Analysis	Total BTEX		1	46248	SM	EET MID	02/13/23 19:47
Total/NA	Analysis	8015 NM		1	46179	SM	EET MID	02/13/23 15:10
Total/NA	Prep	8015NM Prep			46070	AM	EET MID	02/12/23 09:06
Total/NA	Analysis	8015B NM		1	46062	SM	EET MID	02/12/23 20:15
Soluble	Leach	DI Leach			45905	KS	EET MID	02/09/23 14:50
Soluble	Analysis	300.0		10	45919	CH	EET MID	02/10/23 15:16

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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Method Summary

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Honey Buzzard 102

Job ID: 890-4059-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4059-1	H-1	Solid	02/08/23 00:00	02/08/23 13:07	
890-4059-2	H-2	Solid	02/08/23 00:00	02/08/23 13:07	
890-4059-3	H-3	Solid	02/08/23 00:00	02/08/23 13:07	
890-4059-4	H-4	Solid	02/08/23 00:00	02/08/23 13:07	
890-4059-5	AH-1 (0-1')	Solid	02/08/23 00:00	02/08/23 13:07	0 - 1
890-4059-6	AH-2 (0-1')	Solid	02/08/23 00:00	02/08/23 13:07	0 - 1

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Analysis Request of Chain of Custody Record

Page 1 of 1

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ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-4059-1

SDG Number: Lea County NM

Login Number: 4059

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-4059-1

SDG Number: Lea County NM

Login Number: 4059

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 02/09/23 11:55 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 06, 2024

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: HONEY BUZZARD

Enclosed are the results of analyses for samples received by the laboratory on 03/05/24 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/05/2024
Reported: 03/06/2024
Project Name: HONEY BUZZARD
Project Number: 212C - MD - 03007
Project Location: EOG-LEA CO NM

Sampling Date: 03/01/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH - 1 (2.0) (H241083-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2024	ND	2.20	110	2.00	4.98	
Toluene*	<0.050	0.050	03/05/2024	ND	2.15	108	2.00	3.77	
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.09	105	2.00	3.81	
Total Xylenes*	<0.150	0.150	03/05/2024	ND	6.08	101	6.00	3.38	
Total BTEX	<0.300	0.300	03/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	200	100	200	5.30	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	195	97.7	200	6.59	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 03/05/2024
 Reported: 03/06/2024
 Project Name: HONEY BUZZARD
 Project Number: 212C - MD - 03007
 Project Location: EOG-LEA CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 2 (2.0) (H241083-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2024	ND	2.20	110	2.00	4.98		
Toluene*	<0.050	0.050	03/05/2024	ND	2.15	108	2.00	3.77		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.09	105	2.00	3.81		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	6.08	101	6.00	3.38		
Total BTEX	<0.300	0.300	03/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	200	100	200	5.30	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	195	97.7	200	6.59	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/05/2024
Reported: 03/06/2024
Project Name: HONEY BUZZARD
Project Number: 212C - MD - 03007
Project Location: EOG-LEA CO NM

Sampling Date: 03/01/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH - 3 (2.0) (H241083-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2024	ND	2.20	110	2.00	4.98		
Toluene*	<0.050	0.050	03/05/2024	ND	2.15	108	2.00	3.77		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.09	105	2.00	3.81		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	6.08	101	6.00	3.38		
Total BTEx	<0.300	0.300	03/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	200	100	200	5.30	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	195	97.7	200	6.59	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 49.1-148

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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/05/2024
Reported: 03/06/2024
Project Name: HONEY BUZZARD
Project Number: 212C - MD - 03007
Project Location: EOG-LEA CO NM

Sampling Date: 03/01/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH - 4 (2.0) (H241083-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2024	ND	2.20	110	2.00	4.98		
Toluene*	<0.050	0.050	03/05/2024	ND	2.15	108	2.00	3.77		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.09	105	2.00	3.81		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	6.08	101	6.00	3.38		
Total BTEX	<0.300	0.300	03/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	200	100	200	5.30	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	195	97.7	200	6.59	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 03/05/2024
 Reported: 03/06/2024
 Project Name: HONEY BUZZARD
 Project Number: 212C - MD - 03007
 Project Location: EOG-LEA CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 5 (2.0) (H241083-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2024	ND	2.20	110	2.00	4.98		
Toluene*	<0.050	0.050	03/05/2024	ND	2.15	108	2.00	3.77		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.09	105	2.00	3.81		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	6.08	101	6.00	3.38		
Total BTEx	<0.300	0.300	03/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	200	100	200	5.30	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	195	97.7	200	6.59	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.9 % 49.1-148

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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/05/2024
Reported: 03/06/2024
Project Name: HONEY BUZZARD
Project Number: 212C - MD - 03007
Project Location: EOG-LEA CO NM

Sampling Date: 03/01/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 1 (H241083-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2024	ND	2.20	110	2.00	4.98		
Toluene*	<0.050	0.050	03/05/2024	ND	2.15	108	2.00	3.77		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.09	105	2.00	3.81		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	6.08	101	6.00	3.38		
Total BTEx	<0.300	0.300	03/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	200	100	200	5.30	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	195	97.7	200	6.59	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 49.1-148

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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/05/2024
Reported: 03/06/2024
Project Name: HONEY BUZZARD
Project Number: 212C - MD - 03007
Project Location: EOG-LEA CO NM

Sampling Date: 03/01/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 2 (H241083-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2024	ND	2.20	110	2.00	4.98		
Toluene*	<0.050	0.050	03/05/2024	ND	2.15	108	2.00	3.77		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.09	105	2.00	3.81		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	6.08	101	6.00	3.38		
Total BTEx	<0.300	0.300	03/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	200	100	200	5.30	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	195	97.7	200	6.59	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/05/2024
Reported: 03/06/2024
Project Name: HONEY BUZZARD
Project Number: 212C - MD - 03007
Project Location: EOG-LEA CO NM

Sampling Date: 03/01/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 3 (H241083-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2024	ND	2.20	110	2.00	4.98		
Toluene*	<0.050	0.050	03/05/2024	ND	2.15	108	2.00	3.77		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.09	105	2.00	3.81		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	6.08	101	6.00	3.38		
Total BTEX	<0.300	0.300	03/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	200	100	200	5.30	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	195	97.7	200	6.59	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/05/2024
Reported: 03/06/2024
Project Name: HONEY BUZZARD
Project Number: 212C - MD - 03007
Project Location: EOG-LEA CO NM

Sampling Date: 03/01/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 4 (H241083-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2024	ND	2.20	110	2.00	4.98		
Toluene*	<0.050	0.050	03/05/2024	ND	2.15	108	2.00	3.77		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.09	105	2.00	3.81		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	6.08	101	6.00	3.38		
Total BTEx	<0.300	0.300	03/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	200	100	200	5.30	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	195	97.7	200	6.59	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

Page 1 of 1



Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Page 12 of 12

Client Name:	EOG	Site Manager:	Brittany Long
Project Name:	Honey Buzzard	(432) 741-5813 Brittany.long@tetratech.com	
Project Location: (county, state)	Lea County, NM	Project #:	212C-MD-03007
Invoice to:	ATTN : EOG Todd Wells		
Receiving Laboratory:	Cardinal Labs	Sampler Signature:	Miguel A. Flores
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Sulfate	General Water Chemistry (see attached list)	Anion/Cation Balance																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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Relinquished by: Miguel A Flores Date: 3/5/24 Time: 1000

Relinquished by: Date: Time:

Relinquished by: Date: Time:

Received by: [Signature] Date: 3-5-24 Time: 1435

Received by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature

-0.3°C

#140

REMARKS:

- ☒ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 06, 2024

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: HONEY BUZZARD

Enclosed are the results of analyses for samples received by the laboratory on 03/05/24 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/05/2024
Reported: 03/06/2024
Project Name: HONEY BUZZARD
Project Number: 212C - MD - 03007
Project Location: EOG-LEA CO NM

Sampling Date: 03/01/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: AH - 1 (0-1') (H241084-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2024	ND	2.20	110	2.00	4.98		
Toluene*	<0.050	0.050	03/05/2024	ND	2.15	108	2.00	3.77		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.09	105	2.00	3.81		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	6.08	101	6.00	3.38		
Total BTEX	<0.300	0.300	03/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	03/06/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	200	100	200	5.30	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	195	97.7	200	6.59	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 03/05/2024
 Reported: 03/06/2024
 Project Name: HONEY BUZZARD
 Project Number: 212C - MD - 03007
 Project Location: EOG-LEA CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: AH - 1 (2.0') (H241084-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2024	ND	2.21	110	2.00	2.64		
Toluene*	<0.050	0.050	03/05/2024	ND	1.99	99.7	2.00	6.83		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	1.94	97.1	2.00	6.89		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	6.44	107	6.00	2.82		
Total BTEX	<0.300	0.300	03/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	200	100	200	5.30	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	195	97.7	200	6.59	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/05/2024
Reported: 03/06/2024
Project Name: HONEY BUZZARD
Project Number: 212C - MD - 03007
Project Location: EOG-LEA CO NM

Sampling Date: 03/01/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: AH - 1 (3.0') (H241084-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2024	ND	2.21	110	2.00	2.64		
Toluene*	<0.050	0.050	03/05/2024	ND	1.99	99.7	2.00	6.83		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	1.94	97.1	2.00	6.89		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	6.44	107	6.00	2.82		
Total BTEx	<0.300	0.300	03/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	217	108	200	3.95	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	209	105	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/05/2024
Reported: 03/06/2024
Project Name: HONEY BUZZARD
Project Number: 212C - MD - 03007
Project Location: EOG-LEA CO NM

Sampling Date: 03/01/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: AH - 1 (4.0') (H241084-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2024	ND	2.21	110	2.00	2.64		
Toluene*	<0.050	0.050	03/05/2024	ND	1.99	99.7	2.00	6.83		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	1.94	97.1	2.00	6.89		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	6.44	107	6.00	2.82		
Total BTEx	<0.300	0.300	03/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/06/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	217	108	200	3.95	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	209	105	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/05/2024
Reported: 03/06/2024
Project Name: HONEY BUZZARD
Project Number: 212C - MD - 03007
Project Location: EOG-LEA CO NM

Sampling Date: 03/01/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: AH - 2 (0-1') (H241084-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2024	ND	2.21	110	2.00	2.64		
Toluene*	<0.050	0.050	03/05/2024	ND	1.99	99.7	2.00	6.83		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	1.94	97.1	2.00	6.89		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	6.44	107	6.00	2.82		
Total BTX	<0.300	0.300	03/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4080	16.0	03/06/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	217	108	200	3.95	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	209	105	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/05/2024
Reported: 03/06/2024
Project Name: HONEY BUZZARD
Project Number: 212C - MD - 03007
Project Location: EOG-LEA CO NM

Sampling Date: 03/01/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: AH - 2 (2.0') (H241084-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2024	ND	2.21	110	2.00	2.64		
Toluene*	<0.050	0.050	03/05/2024	ND	1.99	99.7	2.00	6.83		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	1.94	97.1	2.00	6.89		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	6.44	107	6.00	2.82		
Total BTEx	<0.300	0.300	03/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/06/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	217	108	200	3.95	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	209	105	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/05/2024
Reported: 03/06/2024
Project Name: HONEY BUZZARD
Project Number: 212C - MD - 03007
Project Location: EOG-LEA CO NM

Sampling Date: 03/01/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: AH - 2 (3.0') (H241084-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2024	ND	2.21	110	2.00	2.64		
Toluene*	<0.050	0.050	03/05/2024	ND	1.99	99.7	2.00	6.83		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	1.94	97.1	2.00	6.89		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	6.44	107	6.00	2.82		
Total BTEX	<0.300	0.300	03/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/06/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	217	108	200	3.95	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	209	105	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/05/2024
Reported: 03/06/2024
Project Name: HONEY BUZZARD
Project Number: 212C - MD - 03007
Project Location: EOG-LEA CO NM

Sampling Date: 03/01/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: AH - 2 (4.0') (H241084-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2024	ND	2.21	110	2.00	2.64		
Toluene*	<0.050	0.050	03/05/2024	ND	1.99	99.7	2.00	6.83		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	1.94	97.1	2.00	6.89		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	6.44	107	6.00	2.82		
Total BTEx	<0.300	0.300	03/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/06/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	217	108	200	3.95	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	209	105	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	EOG	Site Manager:	Brittany Long
Project Name:	Honey Buzzard		(432) 741-5813 Brittany.long@tetratech.com
Project Location: (county, state)	Lea County, NM	Project #:	212C-MD-03007
Invoice to:	ATTN : EOG Todd Wells		
Receiving Laboratory:	Cardinal Labs	Sampler Signature:	Miguel A. Flores
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)																		Hold																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		YEAR: 2024		WATER	SOIL	HCL	HNO ₃	ICE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Miguel A Flores	3/5/24	1000	<i>[Signature]</i>	3-5-24	1435
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
Sample Temperature -0.3°C	<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr
#140	<input type="checkbox"/> Rush Charges Authorized
	<input type="checkbox"/> Special Report Limits or TRRP Report
(Circle) HAND DELIVERED FEDEX UPS Tracking #:	

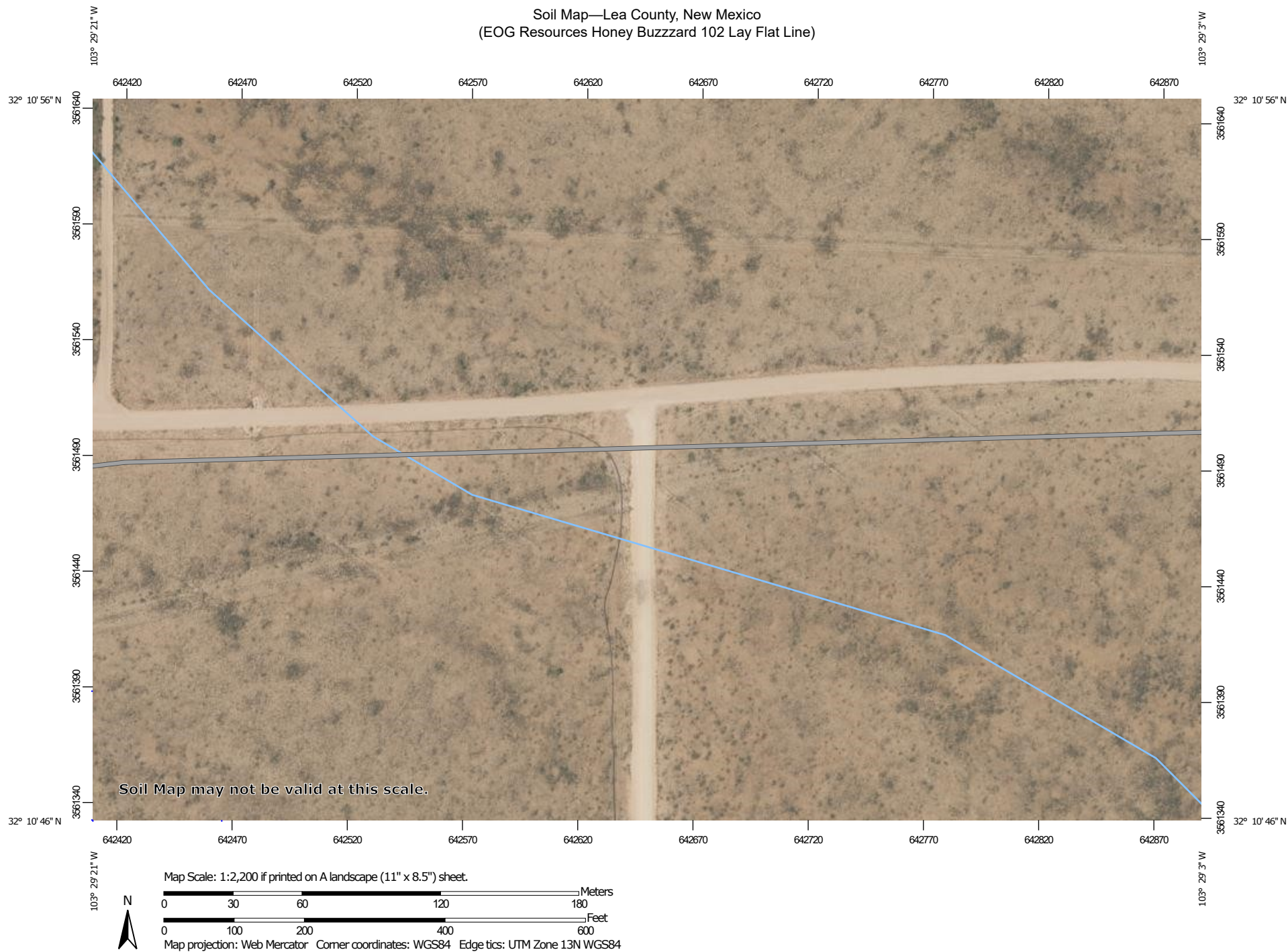
ORIGINAL COPY



Appendix E

Soil Survey and NMSLO Seed Mixture

Soil Map—Lea County, New Mexico
(EOG Resources Honey Buzzard 102 Lay Flat Line)



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

9/20/2023
Page 1 of 3

Soil Map—Lea County, New Mexico
(EOG Resources Honey Buzzard 102 Lay Flat Line)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 19, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
SR	Simona-Upton association	23.5	100.0%
Totals for Area of Interest		23.5	100.0%

Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named, soils that are similar to the named components, and some minor components that differ in use and management from the major soils.

Most of the soils similar to the major components have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Some minor components, however, have properties and behavior characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

Lea County, New Mexico

SR—Simona-Upton association

Map Unit Setting

National map unit symbol: dmr3

Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 16 inches

Mean annual air temperature: 58 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 50 percent

Upton and similar soils: 35 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona**Setting**

Landform: Ridges

Landform position (two-dimensional): Shoulder

Landform position (three-dimensional): Rise

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: gravelly fine sandy loam

Bk - 8 to 16 inches: fine sandy loam

Bkm - 16 to 26 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 50 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Very low (about 1.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R070BD002NM - Shallow Sandy

Hydric soil rating: No

Description of Upton**Setting**

Landform: Ridges

Landform position (two-dimensional): Shoulder

Map Unit Description: Simona-Upton association---Lea County, New Mexico

EOG Resources Honey Buzzard
102 Lay Flat Line

Landform position (three-dimensional): Rise
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous eolian deposits derived from
sedimentary rock

Typical profile

A - 0 to 8 inches: gravelly loam
Bkm - 8 to 18 inches: cemented material
Bck - 18 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Low to
moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0
mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Very low (about 0.9 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Minor Components**Kimbrough**

Percent of map unit: 6 percent
Ecological site: R077CY037TX - Very Shallow 16-21" PZ
Hydric soil rating: No

Stegall

Percent of map unit: 5 percent
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Slaughter

Percent of map unit: 4 percent
Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Map Unit Description: Simona-Upton association---Lea County, New Mexico

EOG Resources Honey Buzzard
102 Lay Flat Line

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 19, Sep 8, 2022

4.4 SEEDING

Drill seeding is the SLO preferred method for applying and incorporating the seed into the soil surface. Other methods of seeding shall only be used when drill seeding is not possible or practical (see Table 3).

Table 3. Recommended seeding methods

Preference	Seeding Method	Situation Best Suited for Seeding Method
1 st	Drill Seeding	All applications
2 nd	Hydroseeding	Steep slopes – greater than 3 horizontal to 1 vertical*
3 rd	Broadcast Seeding - Mechanical	Small areas – less than ¼ acres

*Hydroseeding may occur when more economical for smaller sites.

Seed Mixtures

The seed mixtures developed by the SLO are designed to address the soil types and post-reclamation land use, soil stabilization, erosion control issues, seed availability and seed costs. Expensive seed was only specified when absolutely required.

Seeding rates shall be doubled when hydroseeding or broadcast seeding.

The Operator should request the seed supplier to divide the specified seed mixtures into submixtures of: small seed (S), standard sized seed (D), and fluffy and thrashy seed (F).

No substitution of species, variety, or collection for non-varietal species will be allowed unless evidence is submitted in writing by the Operator to the SLO showing that the specified materials are not reasonably available during the seeding period. The substitution of a species, variety, or collection shall be made only with the written approval of the SLO, prior to making a substitution.

"Pure Live Seed" (PLS) is a means of expressing seed quality. Drills need to be calibrated on the basis of PLS/acre. The amount of PLS required for a planting is based on the quality of a given seed lot. Therefore, prior to calibrating a drill, seed lot quality must be known. PLS and bulk seed required are determined by using the seed analysis information on the seed tag in the following formula.

$$\% \text{ PLS} = [(\% \text{ germination} + \% \text{ hard or dormant}) \times \% \text{ purity}] / 100$$

$$\text{Bulk Seed (lbs/ac)} = \text{PLS seeding rate recommendation (lbs/ac)} / (\% \text{ PLS} / 100)$$

Recommended seeding rates provide an adequate amount of PLS seed per acre even though seed lots differ in seed size, shape, weight, viability, etc. The variation in individual seed lots causes the amount of bulk seed planted per acre to vary considerably while the actual PLS seeding rates remain constant.

Best Times to Seed

Seeding just prior to the summer monsoon season is recommended. The arrival of the summer monsoon season typically occurs somewhere between the middle of June through the end of August. If seeding immediately prior to the summer monsoons is not practical, the SLO recommends seeding during the monsoons, or after the monsoons and before the first frost. Seeding following the summer monsoons may be successful if rain initiates sufficient growth to allow the plants to go through cool, dry, windy, and hot weather prior to the next summer precipitation events.

Seeding during other times of the year is allowed, however, the risk of failure increases due to spring winds and early germination followed by a dry period. Seeding should not be done when the ground is frozen. Seeding may



proceed when there is evidence of frost, providing the seedbed can be kept in a workable condition so that the seed is planted at the correct depth.

Table 4. Recommended Seeding Times

Preference	Seeding Times
1 st	Prior to summer monsoon <i>June - August</i>
2 nd	During summer monsoon
3 rd	After summer monsoon <i>Before first frost</i>

Seed Certification

All seed utilized must be purchased through a licensed dealer and meet standards established by the New Mexico Department of Agriculture (NMDA). All seed shall be furnished in sealed, undamaged containers and shall be plainly labeled on tags in accordance with NMDA standards. Following seeding operations, the Operator shall furnish to the SLO the seed tags and one copy of a materials certification signed by the vendor. One or more random samples may be taken by the SLO or his representative prior to, or during drill seeding operations for testing and analysis by an independent seed laboratory.

Drill Seeding

Drill seeding is the most effective seeding method for revegetation of disturbed sites.

Equipment:

Only rangeland drills are recommended. Drills shall be capable of applying the seed in uniform rows spaced at a maximum of 12 inches; 6 to 8 inch spacing between drill rows is most common. Rangeland drills including Truax Flex II drills, Laird rangeland drills, Great Plains rangeland drills, and equivalent are recommended for use.

Light duty drills (drills incapable of withstanding site and soil conditions on sites to be revegetated), standard farm drills, and drills in poor working condition are not acceptable. Use of these drills will result in less than satisfactory revegetation success due to poor seed application and placement. Turf grass type seeders can be utilized, but may have difficulty seeding in rough and rocky terrain and may be subject to considerable damage.

Rangeland drills capable of seeding a variety of seed types are best. Rangeland drills generally have three seed boxes, which can be used for the 3 seed submixtures.

1. Small seed box for small seed.
2. Standard box for average, non fluffy, non trashy seed
3. Fluffy box for fluffy, trashy, or similar seed

All three boxes shall have their own flow metering system. The drill manufacturer will provide operator's instructions for setting flow rates for the drill boxes. Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).

Application Rates:

The seed mixture shall be applied at the drill seed application rate indicated in the seed mixture tables of the Revegetation Plan with adjustments for hydroseeding or broadcast seeding if needed. Variations from the specified seed mixtures must be approved in writing by the SLO.

Application rates identified in the Revegetation Plan seed mixtures are designed to address more factors than the soil type and the standard recommended seeds per acre. The application rates also address practical issues such as



equipment efficiency, operator error, wind, wildlife impact, seed survivability, seed planting depth, and related factors that negatively impact seed placement and survival.

Seeding Depth:

The SLO recommends seed be drilled to a depth of ¼ to ½ inch regardless of the size or type.

Drill Calibration:

Calibrating the drill at the beginning of drill seeding operations is required for each seed mixture. Continual checking and adjusting the drill settings is necessary. Frequency of checking and adjustments depends on the uniformity of the mixed seed, humidity, dust and trash accumulation in the drill metering system, and variability in the roughness of the soil surface.

Drills can be calibrated by a number of different techniques. Utilize drill manufacturers calibration procedures if available; otherwise, the NMSLO recommends the following drill seeding calibration methods described by the NRCS (USDA, 1985. www.mt.nrcs.usda.gov/technical/ecs/plants/technotes/pmtechnotesMT30.html).

Hydraulic Seeding

Hydraulic seeding, or hydroseeding, is the process of broadcast seed using water and a small amount of wood fiber mulch to carry the seed via a hydroseeder. Hydroseeding is typically best suited for steep slope areas where drill seeding is not practical. While the SLO recommends drill seeding as the method of choice for all sites, economics of smaller sites may make hydroseeding more practical. Hydraulic mulching (hydromulching) shall follow hydroseeding on all sites (see section 4.5 Mulching).

Procedures

Following are the three steps for hydroseeding and hydromulching:

1. Preparing the area for seeding;
2. Hydraulic seeding; and,
3. Hydraulic mulching.

1. Preparing the Area for Seeding:

The Operator should first prepare the seedbed (see section 4.3 Seedbed Preparation).

2. Hydraulic Seeding:

Mix seed, water, and hydraulic mulch fiber into a homogenous slurry and uniformly apply to the areas to be seeded. The slurry must be constantly agitated during application to assure even application and distribution of seed and hydromulch.

Seed should be applied at double the drill seed application rate. At least 1,000 gallons of water should be used per acre for applying the seed and hydraulic mulch. 400 pounds of hydraulic mulch fiber per acre should be included in the mixture to assist the hydroseeder applicator in visually determining the evenness of the seed application and the accuracy of the application rate.

Seed should not be left in the tank with water for more than 2 hours. If this occurs due to equipment failure, or for any other reason, then the mixed material may need to be disposed of either off-site, or applied to the slopes at the Operator's expense. If applied to the slopes, it should not be counted as applied seed and new seed will need to be applied.

3. Hydraulic Mulching (Hydromulching):

Hydromulching is a technique to provide short term soil stabilization and erosion protection while seedlings germinate and begin to establish. Hydromulching differs from hydroseeding in that only hydraulic mulch fiber and tackifier are applied during hydromulching operations. It serves the same purpose as hay mulching and crimping.



Combining seed with all the hydromulch woodfiber and applying everything in a one step operation is highly discouraged and success will be unlikely.

For best results, measure the area(s) to be seeded, divide the disturbed area into small components, depending on the capacity of the hydroseeder, and prepare a chart or plan for determining the number of seed loads and the location(s) for each load. The hydraulic mulch and tackifier should be mixed with water and uniformly applied after seeding, preferably during the same day or within 36 hours. See section 4.5 Mulching for more details on Hydromulching.

Application Rates

Seed mixtures should be applied at double the drill seed application rates in the Revegetation Plans.

Equipment

The hydroseeder shall be equipped with a mechanical power-driven agitator capable of keeping all solids in suspension in a homogeneous slurry until distributed. The pump pressure must maintain a continuous non-fluctuating spray capable of reaching the extremities of the seeding area.

Broadcast Seeding

Broadcast seeding is recommended only for areas inaccessible to a rangeland drill, or too small to warrant the use of a rangeland drill (less than ¼ acres), the SLO recommends drill seeding in all accessible locations. Because the seed is not carefully placed in the soil profile to a controlled depth when broadcast seeding, seed is lost to environmental impacts including wind, rain, wildlife (birds and rodents), sunlight (UV light, heat) and other factors.

Application Rates:

When broadcasting, seed mixtures shall be applied at double the drill seed application rates in the Revegetation Plan.

Procedures:

Areas to be broadcast seeded should receive the same topsoil placement and seedbed preparation as drill seeded areas. If equipment access limitations exist, then some type of soil surface loosening is still necessary such that the topsoil is in a mellow, loosened condition. If slopes are too steep to apply on the contour by drill seeding, broadcast up and down the slope or at a diagonal. Broadcast seeding should not be done during windy conditions.

Do not broadcast an area larger than can be quickly raked, dragged, or chained to cover the seed (within approximately 30 minutes after broadcasting). The seed should be covered approximately ¼ to ½ inches by raking, dragging, chaining, or chain harrowing, unless prevented by equipment access limitations. Care should be taken by the operators and laborers to minimize dragging seed down slope or dragging seed off high spots and concentrating that seed in the low spots. Failure to cover the seed soon after broadcasting, or at all, may result in revegetation failure.

Equipment:

Mechanical broadcast seeding is always recommended over hand broadcast seeding. Mechanical broadcast seeding can be accomplished with any equipment that will evenly spread the seed on the soil surface. A broad range of hand held, ATV mounted, 3-point, and pull type broadcast spreaders are available on the market.

Mechanical broadcasting units must be capable of distributing fluffy and thrashy seed. Most residential type units are not capable. One example of a mechanical broadcasting unit capable of handling fluffy/thrashy seed is distributed by Truax (<http://www.truaxcomp.com/seed-slinger.html>), other types are available.



NMSLO Seed Mix

Shallow (SH)

SHALLOW (SH) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Sideoats grama	Vaughn, El Reno	4.0	F
Blue grama	Lovington, Hachita	3.0	D
Little bluestem	Pastura, Cimmaron	1.5	F
Green sprangletop	VNS, Southern	1.0	D
Plains bristlegrass	VNS, Southern	1.0	D
Forbs:			
Firewheel (<i>Gaillardia</i>)	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F
Total PLS/acre		13.0	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box
VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at <http://plants.usda.gov>.



NMSLO Seed Mix

Lime – Gypsum (LG)

LIME – GYPSUM (LG) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	F
Plains bristlegrass	VNS, Southern	2.0	D
Sand dropseed	VNS, Southern	2.0	S
Forbs:			
Firewheel (<i>Gaillardia</i>)	VNS, Southern	1.0	D
Annual Sunflower	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	VNS, Southern	1.0	F
Total PLS/acre		13.0	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at <http://plants.usda.gov>.



NMSLO Seed Mix

Loamy (L)

LOAMY (L) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	F
Sand dropseed	VNS, Southern	2.0	S
Alkali sacaton	VNS, Southern	1.0	
Little bluestem	Cimarron, Pastura	1.5	F
Forbs:			
Firewheel (<i>Gaillardia</i>)	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F
Total PLS/acre		18.0	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at <http://plants.usda.gov>.



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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 500391

QUESTIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 500391
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2307052908
Incident Name	NAPP2307052908 HONEY BUZZARD 102 LAY FLAT LINE @ A-32-24S-34E
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source*Please answer all the questions in this group.*

Site Name	HONEY BUZZARD 102 LAY FLAT LINE
Date Release Discovered	01/22/2023
Surface Owner	State

Incident Details*Please answer all the questions in this group.*

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 10 BBL Recovered: 5 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 500391

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 500391
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Todd Wells Title: Safety and Environmental Specialist Email: Todd_Wells@eogresources.com Date: 08/28/2025
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QUESTIONS, Page 3

Action 500391

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 500391
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 100 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	4640
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	03/01/2024
On what date will (or did) the final sampling or liner inspection occur	03/01/2024
On what date will (or was) the remediation complete(d)	03/01/2024
What is the estimated surface area (in square feet) that will be reclaimed	1109
What is the estimated volume (in cubic yards) that will be reclaimed	82
What is the estimated surface area (in square feet) that will be remediated	1109
What is the estimated volume (in cubic yards) that will be remediated	82
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Action 500391

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 500391
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fJEG1635837366 OWL LANDFILL JAL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Todd Wells Title: Safety and Environmental Specialist Email: Todd_Wells@eogresources.com Date: 08/28/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Action 500391

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 500391
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Action 500391

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 500391
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	318495
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/01/2024
What was the (estimated) number of samples that were to be gathered	12
What was the sampling surface area in square feet	1097

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1109
What was the total volume (cubic yards) remediated	82
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1109
What was the total volume (in cubic yards) reclaimed	82
Summarize any additional remediation activities not included by answers (above)	None
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Todd Wells Title: Safety and Environmental Specialist Email: Todd_Wells@eogresources.com Date: 08/28/2025

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Action 500391

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 500391
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 500391

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 500391
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	9/26/2025